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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,474 01/26/2004		Sehat Sutardja	MP0319	9439
26703	7590 06/16/2006	EXAMINER		INER
HARNESS, DICKEY & PIERCE P.L.C. 5445 CORPORATE DRIVE			WILSON, SCOTT R	
SUITE 400	id II D Did V D		ART UNIT	PAPER NUMBER
TROY, MI 48098		2826		

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Symmony	10/765,474	SUTARDJA, SEHAT			
Office Action Summary	Examiner	Art Unit			
	Scott R. Wilson	2826			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tirr fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35'U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on 17 Ma	arch 2006.				
2a) ☐ This action is FINAL . 2b) ☒ This	☐ This action is FINAL . 2b) ☑ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)	vn from consideration.	nt.			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of the c	epted or b) objected to by the lidentification of by the lidentificati	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species:

- I. Claims 45-53 and 137-142, drawn to an interconnect structure, and
- II. Claims 54-57 and 143-146, drawn to an interconnect structure.

Inventions I and II are directed to related products. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, invention I, illustrated in Figure 6A, and disclosed in paragraph [0082], is drawn to an interconnect structure formed on a dielectric layer with vias connecting metal layers on opposite sides of the layer. Invention II, illustrated in Figure 25A, and disclosed in paragraph [0115], is drawn, however, to a interconnect structure formed on an aluminum core, divided into conducting portions, said conducting portions connected to contacts on opposite sides of the aluminum core layer. The inventions are mutually exclusive in the sense that invention I comprises a dielectric, non-conducting core containing conducting vias, but invention II comprises a metal, conducting core, which provides the conducting path itself. Inventions I and II are not obvious variants, since one has a conducting core, and the other has a non-conducting core. The modes of operation of the two inventions are materially different, since in invention I, the vias formed within the core provide the conducting path, whereas in invention II, the core itself provides the conducting path.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Art Unit: 2826

Currently, "An interconnect structure for connecting a first integrated circuit to a second integrated circuit" is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott R. Wilson whose telephone number is 571-272-1925. The examiner can normally be NATHAM reached on M-F 8:30 - 4:30 Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Nathan Flynn can be reached on 571-272-1915. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.